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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/135,413 08/14/98 FORBES

L 303.354US2

MM22/1213
SCHWEGMAN LUNDBERG WOESSNER & KLUTH
PO BOX 2938
MINNEAPOLIS MN 55402

EXAMINER

NGUYEN, V

ART UNIT	PAPER NUMBER
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2818

DATE MAILED:

12/13/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/135,413

Applicant(s)

Forbes et al

Examiner

V. Nguyen

Group Art Unit

2818

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☒ Responsive to communication(s) filed on Amendment filed on 10/18/99
- ☐ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 19-21, 28-38, 43-63 is/are pending in the application.
- Of the above claim(s) _____ is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☒ Claim(s) 19-21, 28-38, 43-63 is/are rejected.
- ☐ Claim(s) _____ is/are objected to.
- ☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.
- ☐ received in Application No. (Series Code/Serial Number) _____
- ☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- ☒ Notice of Reference(s) Cited, PTO-892
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Interview Summary, PTO-413
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Other _____

Office Action Summary

Art Unit: 2818

The amendment filed on 10/18/99 has been entered and made of record.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 19-21, 43-63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugita et al (Jp. 08-255878) in view of Sakata et al (Electronic letters, 28th, 4/94).

Sugita et al has been mentioned in the last office actin for teaching a SiC insulating film disposed between the floating gate and the substrate. It is noted that Sugita is deficient with respect to the claimed "amorphous silicon carbide (a-SiC)" material used as such gate insulator. However, Sakata (see Fig. 1) suggests such material use in a similar memory device (that is, "gate-to-substrate tunnelling") structure and/or similar effects as that of Sugita et al 's device, which would have been obviously suggested to one skilled in this art to employ a-Sic as an alternative material for the shown insulator layer of Sugita et al and/or further design choice variations. See the entire teachings.

Serial Number: 09/135,413

Page 3

Art Unit: 2818

Any inquiry concerning this communication should be directed to Viet Nguyen at telephone number (703) 308-4897.

Viet Nguyen

WN
Nguyen/dc
December 10, 1999

Viet Q. Nguyen
Primary Examiner